

## ABSTRACT

A system, apparatus, and method for reducing exposure to electromagnetic radiation by transferring at least one communication between a first interface, proximate a wireless device capable of emitting radio frequency electromagnetic radiation, and a second interface. A first converter to receive the communication and in response to generate an optical communication, the first converter coupled with one of the first interface and second interface. A second converter to receive the optical communication and in response to generate a second communication, the second converter coupled with one of the first interface and the second interface, wherein the first and second converters are coupled with different interfaces. An optical coupling between the first and second converters to communicate the optical communication and to reduce transferred radiation therebetween. A method of using the system for reducing exposure to electromagnetic radiation.

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